Application No.: 09/852,683
Reply to Office Action of November 18, 2003
Atty. Docket: 0905-0259P

## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

1. (Currently Amended) An integrated circuit in which a device for high-speed access, a device for low-speed access and a control circuit for controlling transfer of data to these devices are connected by a common bus in such a manner that transfer of data to the device for high-speed access takes priority, said integrated circuit comprising:

a switch circuit for performing control to turn on and off the bus connection between the device for high-speed access and the device for low-speed access; and

a control circuit for controlling said switch circuit so as to turn off the bus connection when data is transferred to the device for high-speed access and turn on the bus connection when data is transferred to the device for low-speed access.

wherein the device for high-speed access, the device for low-speed access and the switch control circuit each operates in synchronization with common clock pulses, the common clock pulses having a period that varies based on the access speed of the device to be accessed.

2. (Original) The integrated circuit according to claim 1, wherein a plurality of devices inclusive of the device for high-speed access and the device for low-speed access are connected by the common bus so as to be given priority for data transfer in order of decreasing access speed;

said switch circuit being provided between mutually adjacent devices among said plurality of devices for turning on and off the bus connection between the mutually adjacent devices among said plurality of devices;

said control circuit controlling said switch circuits in sequence to turn on the bus connection so as to make possible access to a device circuit having a higher access speed.

- 3. (Currently Amended) The integrated circuit according to claim

  1, wherein the device for high speed access, the device for lowspeed access and the switch control circuit each operate in sync
- said integrated circuit further <u>comprising</u> <u>comprises</u> a control circuit for outputting, in sync with the <u>common</u> clock pulses, a data-transfer enable signal that enables transfer of data upon elapse of a fixed period of time after said control circuit controls said switch circuit so as to turn on the bus connection.

with clock pulses;

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4. (Original) The integrated circuit according to claim 3, wherein output timing of the data-transfer enable signal output from said output circuit differs in dependence upon the access speeds of said devices.

(Canceled)

6. (Currently Amended) A method of controlling an integrated circuit in which a device for high-speed access, a device for low-speed access and a control circuit for controlling transfer of data to these devices are connected by a common bus in such a manner that transfer of data to the device for high-speed access takes priority, said method comprising the steps of:

providing a switch circuit for performing control to turn on and off the bus connection between the device for high-speed access and the device for low-speed access; and

controlling the switch circuit so as to turn off the bus connection when data is transferred to the device for high-speed access and turn on the bus connection when data is transferred to the device for low-speed access; and

operating the device for high-speed access, the device for low-speed access and the switch control circuit in

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synchronization with common clock pulses, the common clock
pulses having a period that varies based on the access speed of
the device to be accessed.